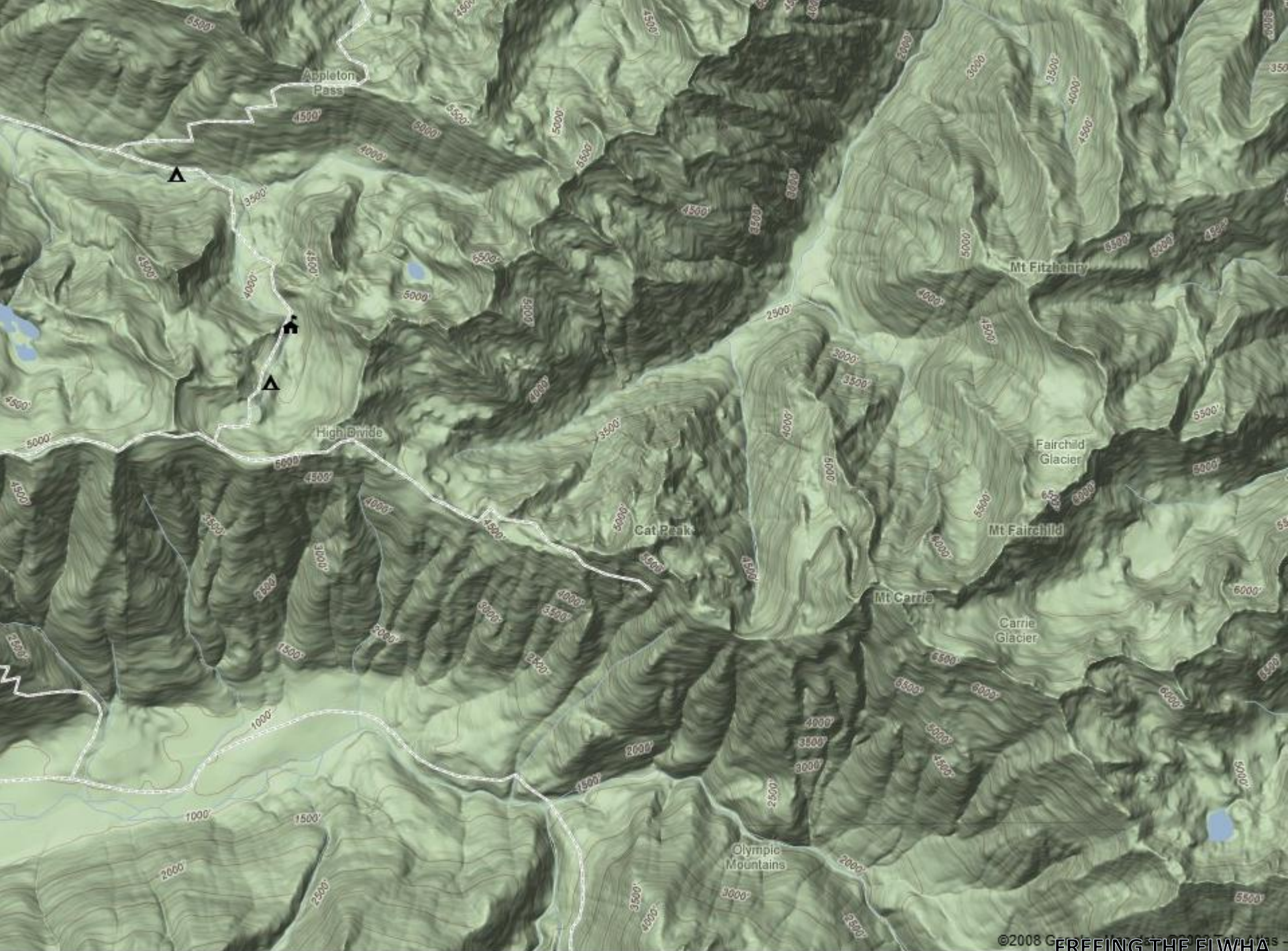


# Predicting Treeline Student Edition



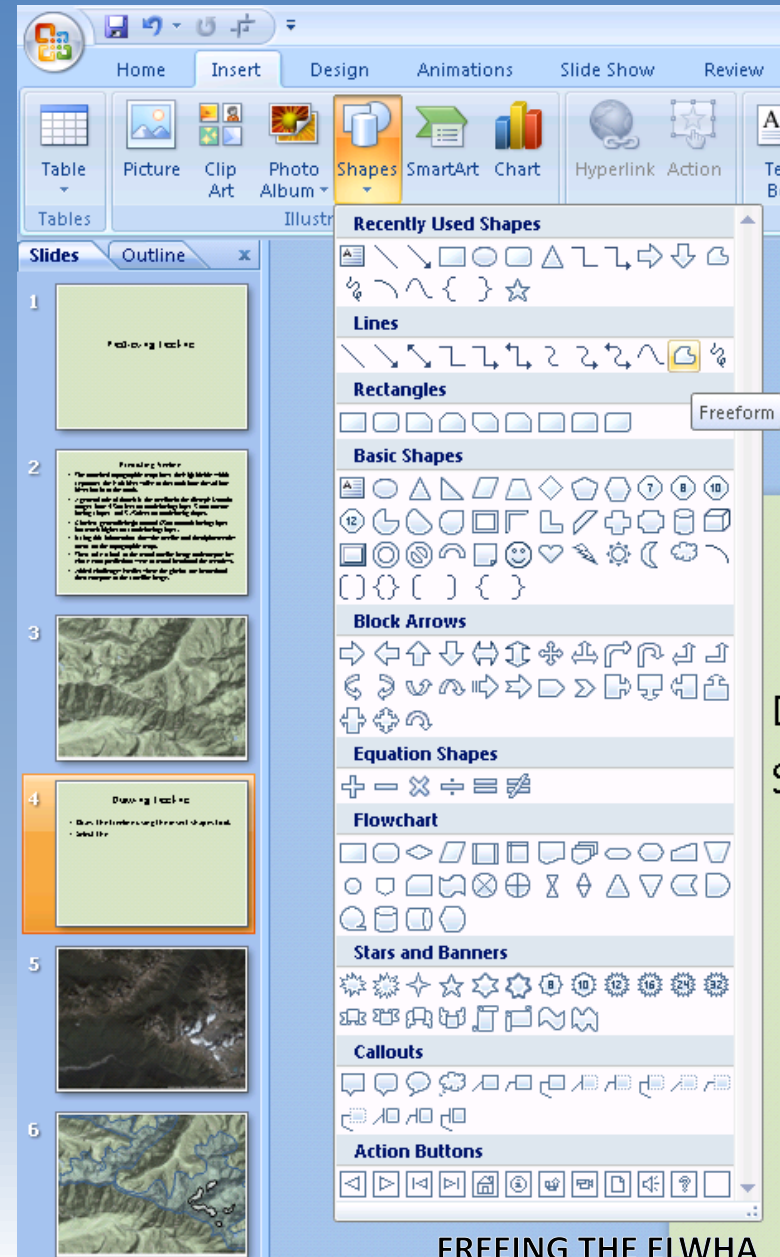
# Directions

- o The attached topographic map shows the **High Divide**, which separates the Hoh River valley to the south from the Sol Duc River basin to the north.
- o A general rule of thumb is the treeline in the Olympic Mountains ranges from 4,500 feet on north-facing slopes, 5,000 on east-facing slopes, and 5,250 feet on south-facing slopes.
- o Glaciers generally begin around 6,500 on north facing slopes, but much higher on south-facing slopes.
- o Using this information, draw the treeline and the alpine meadow areas on the topographic maps.
- o Then, take a look at the actual satellite image and compare how close your predictions were to actual location of the meadows.
- o Added challenge: Predict where the glaciers are located and then compare to the satellite image.



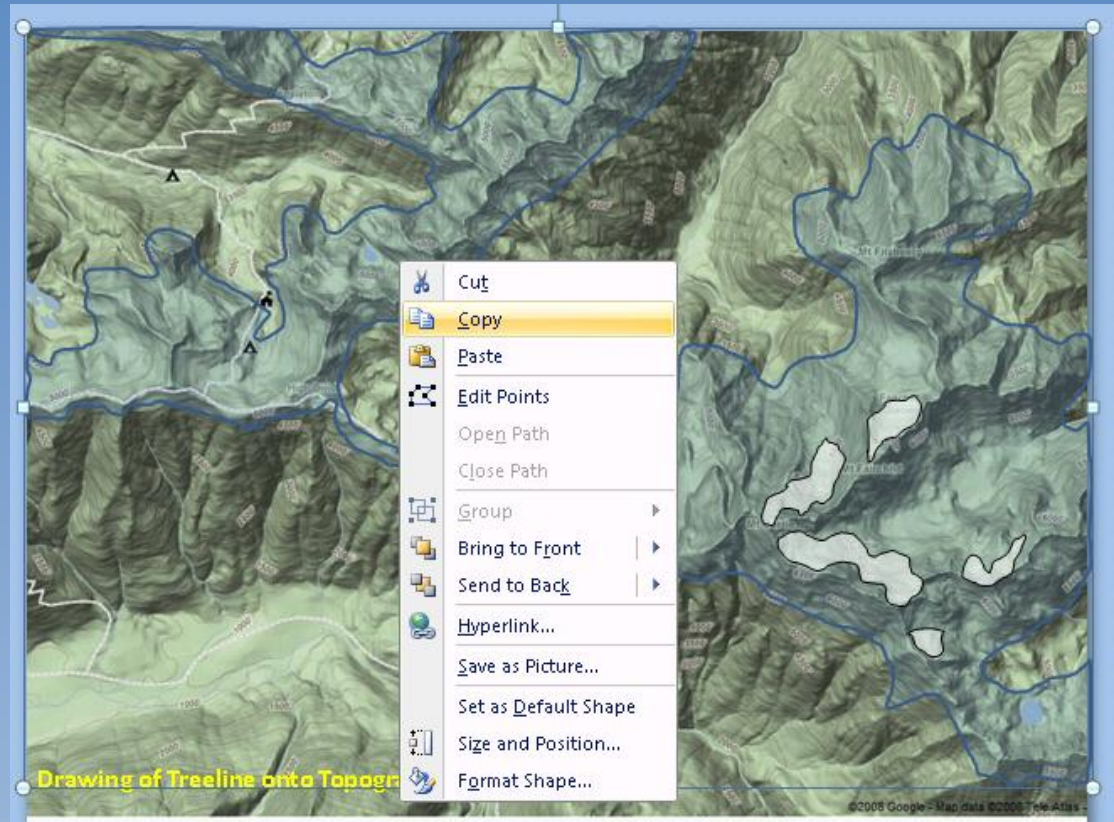
# Drawing Treeline

- Draw the treeline using the insert shapes tool.
- Select the freeform shape, that allows you to draw the shape and then fill in the closed shape with a color.



# Comparing the Drawing to the Satellite Image

- Students should not look at the satellite image that follows until they have drawn their treelines on the topographical map.
- Once the image is drawn, they should copy the layer and then paste it onto the satellite image to see how well they match up.





**The Actual Satellite Image**

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